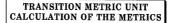
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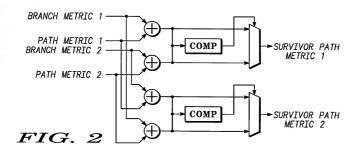


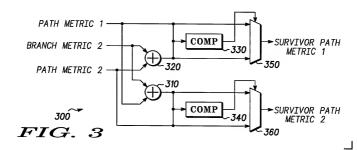
BUILDING UP THE TRELLIS (ONE ACS OPERATION PER NODE OR ONE ACS BUTTERFLY PER TWO NODES)

> SURVIVOR-MEMORY-UNIT BACKTRACKING

SAVING OF DECODED MESSAGE

FIG. 1





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$$b_{in}=0 - X^{1} X^{2} X^{3} X^{4} X^{5} 0 \qquad \underline{\underline{m}}_{b4} \qquad BUTTERFLY TYPE II$$

$$b_{in}=1 - X^{1} X^{2} X^{3} X^{4} X^{5} 0 \qquad \underline{\underline{m}}_{b1}=0 \qquad 0 \quad X^{1} X^{2} X^{3} X^{4} X^{5}$$

$$b_{in}=0 - X^{1} X^{2} X^{3} X^{4} X^{5} 1 \qquad \underline{\underline{m}}_{b1}=0 \qquad 1 \quad X^{1} X^{2} X^{3} X^{4} X^{5}$$

$$b_{in}=1 - X^{1} X^{2} X^{3} X^{4} X^{5} 1 \qquad \underline{\underline{m}}_{b4} \qquad FIG. 4B$$

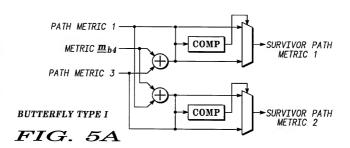
$$b_{im}=0 - X^{1} X^{2} X^{3} X^{4} X^{5} 0 \xrightarrow{\underline{m}} b^{3} \qquad BUTTERFLY TYPE IV$$

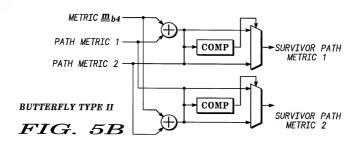
$$b_{im}=1 - X^{1} X^{2} X^{3} X^{4} X^{5} 0 \xrightarrow{\underline{m}} b^{2} \qquad 0 X^{1} X^{2} X^{3} X^{4} X^{5}$$

$$b_{im}=0 - X^{1} X^{2} X^{3} X^{4} X^{5} 1 \xrightarrow{\underline{m}} b^{2} \qquad 1 X^{1} X^{2} X^{3} X^{4} X^{5}$$

$$b_{im}=1 - X^{1} X^{2} X^{3} X^{4} X^{5} 1 \xrightarrow{\underline{m}} b^{3} \qquad FIG. 4D$$

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